

10/019,802

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NEWS 4 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN  
NEWS 5 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)  
now available on STN  
NEWS 6 Aug 26 Sequence searching in REGISTRY enhanced  
NEWS 7 Sep 03 JAPIO has been reloaded and enhanced  
NEWS 8 Sep 16 Experimental properties added to the REGISTRY file  
NEWS 9 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
NEWS 10 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985  
NEWS 11 Oct 24 BEILSTEIN adds new search fields  
NEWS 12 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN  
NEWS 13 Nov 18 DKILIT has been renamed APOLLIT  
NEWS 14 Nov 25 More calculated properties added to REGISTRY  
NEWS 15 Dec 04 CSA files on STN  
NEWS 16 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date  
NEWS 17 Dec 17 TOXCENTER enhanced with additional content  
NEWS 18 Dec 17 Adis Clinical Trials Insight now available on STN  
NEWS 19 Jan 29 Simultaneous left and right truncation added to COMPENDEX,  
ENERGY, INSPEC  
NEWS 20 Feb 13 CANCERLIT is no longer being updated  
NEWS 21 Feb 24 METADEX enhancements  
NEWS 22 Feb 24 PCTGEN now available on STN  
NEWS 23 Feb 24 TEMA now available on STN  
NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation  
NEWS 25 Feb 26 PCTFULL now contains images  
NEWS 26 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results  
NEWS 27 Mar 19 APOLLIT offering free connect time in April 2003  
NEWS 28 Mar 20 EVENTLINE will be removed from STN  
NEWS 29 Mar 24 PATDPAFULL now available on STN  
NEWS 30 Mar 24 Additional information for trade-named substances without  
structures available in REGISTRY  
NEWS 31 Mar 24 Indexing from 1957 to 1966 added to records in CA/CAPLUS  
NEWS 32 Apr 11 Display formats in DGENE enhanced  
NEWS 33 Apr 14 MEDLINE Reload  
NEWS 34 Apr 17 Polymer searching in REGISTRY enhanced  
  
NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 13:15:02 ON 17 APR 2003

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 13:15:14 ON 17 APR 2003  
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FILE COVERS 1907 - 17 Apr 2003 VOL 138 ISS 16  
FILE LAST UPDATED: 16 Apr 2003 (20030416/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s WO01/01979/pn  
L1 0 WO01/01979/PN  
(WO1/PN)

=> s WO000101979/pn  
L2 0 WO000101979/PN  
(WO101979/PN)

=> s (therapeutic agents)  
140977 THERAPEUTIC  
14199 THERAPEUTICS  
151713 THERAPEUTIC  
(THERAPEUTIC OR THERAPEUTICS)  
864199 AGENTS  
L3 11400 (THERAPEUTIC AGENTS)  
(THERAPEUTIC (W) AGENTS)

=> s luscombe/au  
L4 0 LUSCOMBE/AU

=> s luscombe  
L5 7 LUSCOMBE

=> s l3 and l5  
L6 0 L3 AND L5

```
=> s (addictive disorders)
      833 ADDICTIVE
      5 ADDICTIVES
      837 ADDICTIVE
        (ADDICTIVE OR ADDICTIVES)
121128 DISORDERS
L7      41 (ADDICTIVE DISORDERS)
        (ADDICTIVE (W) DISORDERS)
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      200812 41
L8      97 L3 AND 41
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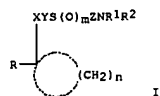
```
=> s l3 and l7
L9      0 L3 AND L7
```

```
=> s l7 and l5
L10     0 L7 AND L5
```

```
=> s (drug misuse)
      472109 DRUG
      255380 DRUGS
      605395 DRUG
        (DRUG OR DRUGS)
      850 MISUSE
      46 MISUSES
      888 MISUSE
        (MISUSE OR MISUSES)
L11     23 (DRUG MISUSE)
        (DRUG (W) MISUSE)
```

```
=> s l11 and l7
L12     2 L11 AND L7
```

```
=> d l12 1-2 abs ibib
```



AB Compds. I [m = 0-2; n = 2-5; X = carbonyl, C(R5)(OH) (R5 = H, alkyl); Y = (alkyl-substituted) alkylene; Z = (alkyl-substituted) C2-5 alkylene; R = (halo-substituted) Ph, naphthyl; R1, R2 = H, alkyl, arylalkyl, provided that when R1 is benzyl, R2 is H or methyl], and pharmaceutically acceptable salts thereof, have utility in the treatment of drug misuse or other addictive disorders.

ACCESSION NUMBER: 2001:31323 CAPLUS  
DOCUMENT NUMBER: 134:95524  
TITLE: Cyclic ethanone and ethanol derivatives for the treatment of drug misuse or other addictive disorders

INVENTOR(S): Luscombe, Graham Paul; Needham, Patricia Lesley  
PATENT ASSIGNEE(S): Knoll Aktiengesellschaft, Germany  
SOURCE: PCT Int. Appl., 24 pp.  
CODEN: PIXXD2

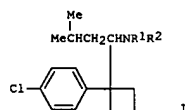
DOCUMENT TYPE: Patent  
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001001979	A1	20010111	WO 2000-EP5736	20000621
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1198229	A1	20020424	EP 2000-943853	20000621
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
JP 2003503452	T2	20030128	JP 2001-507472	20000621
PRIORITY APPLN. INFO.:			GB 1999-15617	A 19990705
			WO 2000-EP5736	W 20000621

OTHER SOURCE(S): MARPAT 134:95524  
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT



AB A compd. of formula (I) or a pharmaceutically acceptable salt thereof in which R1 and R2 are independently H or Me (for example, N,N-dimethyl-1-[1-(4-chlorophenyl)cyclobutyl]-3-methylbutylamine hydrochloride optionally in the form of its monohydrate) is used for treating disorders arising from drug misuse or other addictive disorders. Conditions which may be treated with I includes disorders arising from drug misuse, aiding in the cessation of drug misuse including drug withdrawal syndromes.

ACCESSION NUMBER: 2000:688009 CAPLUS  
DOCUMENT NUMBER: 133:261533  
TITLE: Methods of treating disorders relating to the pharmacology of drug misuse and other addictive disorders

INVENTOR(S): Mendel, Carl M.; Seaton, Timothy B.; Weinstein, Steve P.

PATENT ASSIGNEE(S): Knoll Pharmaceutical Company, USA

SOURCE: PCT Int. Appl., 16 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent  
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

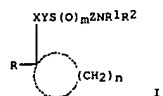
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WO 2000056148	A1	20000928	WO 2000-US7111	20000317
W:	AT, AU, BG, BR, CA, CN, CZ, DE, DK, ES, FI, GB, HR, HU, ID, IL, IN, IS, JP, KR, LT, LU, LV, MX, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, TR, UA, ZA			
RW:	AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE			
US 6346549	B1	20020212	US 2000-527726	20000317

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 133:261533  
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

=> s 2001:31323/an  
L13 1 2001:31323/AN  
=> d l13 abs ibib



AB Compds. I [m = 0-2; n = 2-5; X = carbonyl, C(R<sub>5</sub>)(OH) (R<sub>5</sub> = H, alkyl); Y = (alkyl-substituted) alkylene; Z = (alkyl-substituted) C2-5 alkylene; R = (halo-substituted) Ph, naphthyl; R<sub>1</sub>, R<sub>2</sub> = H, alkyl, arylalkyl, provided that when R<sub>1</sub> is benzyl, R<sub>2</sub> is H or methyl], and pharmaceutically acceptable salts thereof, have utility in the treatment of drug misuse or other addictive disorders.

ACCESSION NUMBER: 2001:31323 CAPLUS  
DOCUMENT NUMBER: 134:95524  
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INVENTOR(S): Luscombe, Graham Paul; Needham, Patricia Lesley  
PATENT ASSIGNEE(S): Knoll Aktiengesellschaft, Germany  
SOURCE: PCT Int. Appl., 24 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001001979	A1	20010111	WO 2000-EP5736	20000621
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1198229	A1	20020424	EP 2000-943853	20000621
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003503452	TZ	20030128	JP 2001-507472	20000621
PRIORITY APPLN. INFO.: GB 1999-15617 A 19990705 WO 2000-EP5736 W 20000621				
OTHER SOURCE(S): MARPAT 134:95524				
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT				

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ENTER ANSWER NUMBER OR RANGE (1-):1-
E1 THROUGH E22 ASSIGNED
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COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          31.75      31.96

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                               ENTRY      SESSION
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STRUCTURE FILE UPDATES: 16 APR 2003 HIGHEST RN 503266-82-8  
DICTIONARY FILE UPDATES: 16 APR 2003 HIGHEST RN 503266-82-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNnote 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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1 161190-02-9/BI
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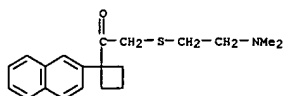
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L14

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=> d scan

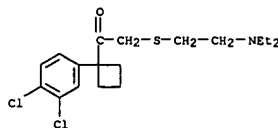
L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN Ethanone, 2-[[2-(dimethylamino)ethyl]thio]-1-[1-(2-naphthalenyl)cyclobutyl]- (9CI)  
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 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):21

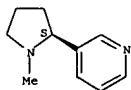
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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

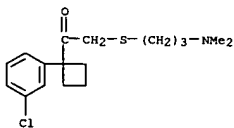
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Absolute stereochemistry. Rotation (-).



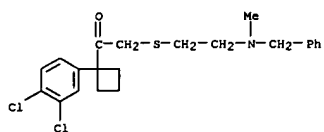
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 MF C17 H24 Cl N O S  
 CI COM



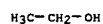
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 MF C22 H25 Cl2 N O S  
 CI COM



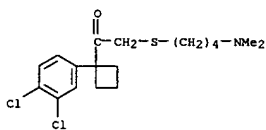
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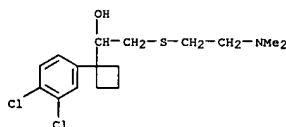
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 CI COM



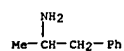
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
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 CI COM



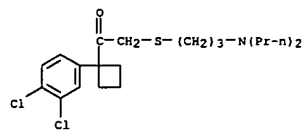
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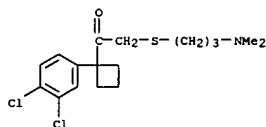
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
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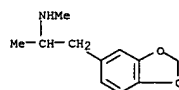
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 CI COM



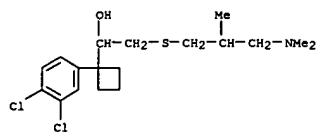
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN 1,3-Benzodioxole-5-ethanamine, N,.alpha.-dimethyl- (9CI)  
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 CI COM



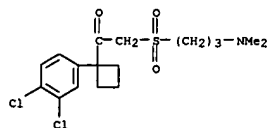
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN Cyclobutanemethanol,  
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 MF C18 H27 Cl2 N O S  
 CI COM



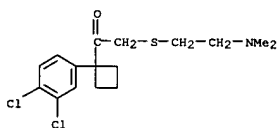
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L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
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 MF C17 H23 Cl2 N O3 S  
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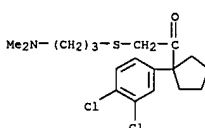
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L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[2-(  
 dimethylamino)ethylthio]- (9CI)  
 MF C16 H21 Cl2 N O S  
 CI COM



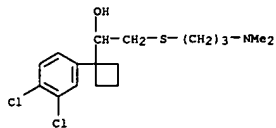
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclopentyl]-2-[[3-(  
 dimethylamino)propylthio]- (9CI)  
 MF C18 H25 Cl2 N O S  
 CI COM



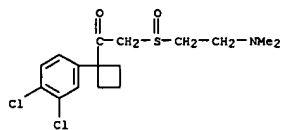
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN Cyclobutanemethanol, 1-(3,4-dichlorophenyl)-.alpha.-[[(3-(dimethylamino)propyl)thio]methyl]- (9CI)  
 MF C17 H25 Cl2 N O S  
 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

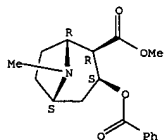
L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[2-(dimethylamino)ethyl]sulfinyl]- (9CI)  
 MF C16 H21 Cl2 N O2 S  
 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

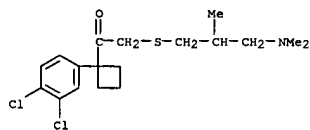
L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(benzoyloxy)-8-methyl-, methyl ester, (1R,2R,3S,5S)- (9CI)  
 MF C17 H21 N O4  
 CI COM

Absolute stereochemistry. Rotation (-).



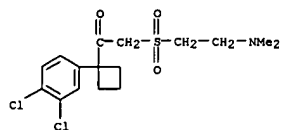
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[3-(dimethylamino)-2-methylpropyl]thio]- (9CI)  
 MF C18 H25 Cl2 N O S  
 CI COM



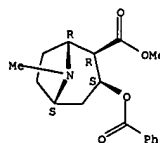
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[2-(dimethylamino)ethyl]sulfonyl]- (9CI)  
 MF C16 H21 Cl2 N O3 S  
 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(benzoyloxy)-8-methyl-, methyl ester, hydrochloride, (1R,2R,3S,5S)- (9CI)  
 MF C17 H21 N O4 . Cl H  
 CI COM



Absolute stereochemistry. Rotation (-).

● HCl

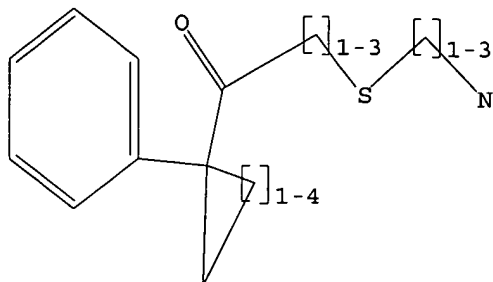
ALL ANSWERS HAVE BEEN SCANNED

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Uploading 10019802.str

L15        STRUCTURE UPLOADED

=> d query

L15        STR



Structure attributes must be viewed using STN Express query preparation.

=> s l15

SAMPLE SEARCH INITIATED 13:28:43 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED -        5 TO ITERATE

100.0% PROCESSED            5 ITERATIONS                            3 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:    ONLINE    \*\*COMPLETE\*\*  
                              BATCH    \*\*COMPLETE\*\*  
PROJECTED ITERATIONS:            5 TO        234  
PROJECTED ANSWERS:                3 TO        163

L16                    3 SEA SSS SAM L15

=> s l15 full

FULL SEARCH INITIATED 13:28:48 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED -        49 TO ITERATE

100.0% PROCESSED            49 ITERATIONS                            26 ANSWERS  
SEARCH TIME: 00.00.01

L17                    26 SEA SSS FUL L15

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	153.35	185.31
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-1.95

FILE 'CAPLUS' ENTERED AT 13:28:52 ON 17 APR 2003  
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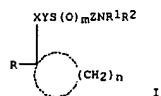
FILE COVERS 1907 - 17 Apr 2003 VOL 138 ISS 16  
FILE LAST UPDATED: 16 Apr 2003 (20030416/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L18                    4 L17

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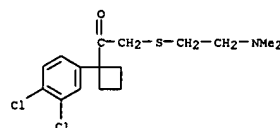
AB Compds. I [m = 0-2; n = 2-5; X = carbonyl, C(R5)(OH) (R5 = H, alkyl); Y = (alkyl-substituted) alkylene; Z = (alkyl-substituted) C2-5 alkylene; R = (halo-substituted) Ph, naphthyl; R1, R2 = H, alkyl, arylalkyl, provided that when R1 is benzyl, R2 is H or methyl], and pharmaceutically acceptable salts thereof, have utility in the treatment of drug misuse or other addictive disorders.

ACCESSION NUMBER: 2001:31323 CAPLUS  
DOCUMENT NUMBER: 134:95524  
TITLE: Cyclic ethanone and ethanol derivatives for the treatment of drug misuse or other addictive disorders  
INVENTOR(S): Luscombe, Graham Paul; Needham, Patricia Lesley  
PATENT ASSIGNEE(S): Knoll Aktiengesellschaft, Germany  
SOURCE: PCT Int. Appl., 24 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

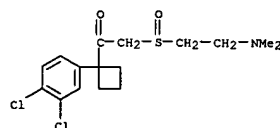
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WO 2001001979	A1	20010111	WO 2000-EP5736	20000621
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1198229	A1	20020424	EP 2000-943853	20000621
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003503452	T2	20030128	JP 2001-507472	20000621
PRIORITY APPLN. INFO.: GB 1999-15617 A 19990705 WO 2000-EP5736 W 20000621				

OTHER SOURCE(S): MARPAT 134:95524  
IT 161189-93-1 161189-94-2 161189-94-2D, enantiomers 161189-95-3 161189-96-4 161189-97-5 161189-99-7 161190-00-7 161190-02-9 161190-02-9D, enantiomers 161190-03-0 161190-04-1 161190-06-3 161190-08-5  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

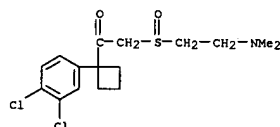
L18 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)  
(Uses)  
(cyclic ethanone and ethanol deriva. for treatment of drug misuse or other addictive disorder)  
RN 161189-93-1 CAPLUS  
CN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[2-(dimethylamino)ethyl]thio]- (9CI) (CA INDEX NAME)



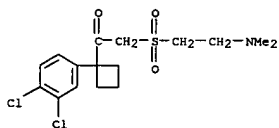
RN 161189-94-2 CAPLUS  
CN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[2-(dimethylamino)ethyl]sulfinyl]- (9CI) (CA INDEX NAME)



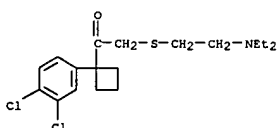
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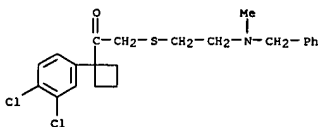
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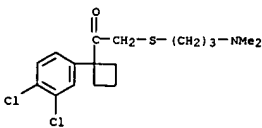
RN 161189-96-4 CAPLUS  
CN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[2-(diethylamino)ethyl]thio]- (9CI) (CA INDEX NAME)



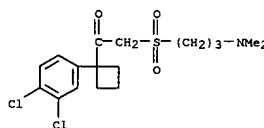
RN 161189-97-5 CAPLUS  
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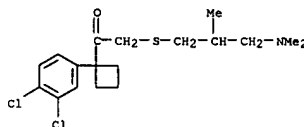
RN 161189-99-7 CAPLUS  
CN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[3-(dimethylamino)propyl]thio]- (9CI) (CA INDEX NAME)



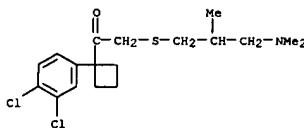
L18 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)  
RN 161190-00-7 CAPLUS  
CN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[3-(dimethylamino)propyl]sulfonyl]- (9CI) (CA INDEX NAME)



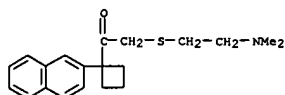
RN 161190-02-9 CAPLUS  
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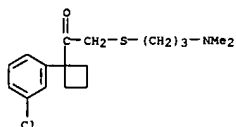
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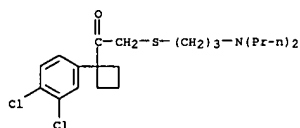
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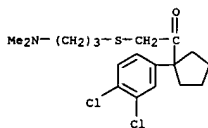
RN 161190-04-1 CAPLUS  
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RN 161190-06-3 CAPLUS  
CN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[3-(dimethylamino)propyl]thio]- (9CI) (CA INDEX NAME)



RN 161190-08-5 CAPLUS  
CN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclopentyl]-2-[[3-(dimethylamino)propyl]thio]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

## L18 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS

GI For diagram(s), see printed CA issue.  
AB Title compds. [I; m = 0-2; n = 2-5; X = CO, CH(OH)R5; R5 = H, alkyl; Y, Z = (alkyl-substituted) alkylene; R = (substituted) Ph, naphthyl; R1, R2 = H, alkyl, arylalkyl; when R1 = benzyl, then R2 = H, Me], were prepd. I are useful in treatment of depression, anxiety, Parkinson's disease, obesity, cognitive disorders, seizures, neurol. disorders such as epilepsy, and as neuroprotective agents to protect against conditions

such as stroke. Thus, 1-(3,4-dichlorophenyl)cyclobutanecarbonitrile reacted with MeMgI in Et2O to give 1-[1-(3,4-dichlorophenyl)cyclobutyl]ethanone. This was treated with Br2 in MeOH/CHCl3 to give 2-bromo-1-[1-(3,4-dichlorophenyl)cyclobutyl]ethanone, which was stirred with 2-(dimethylamino)ethanethiol hydrochloride in EtOH to give an oil which was treated with HCl in Et2O to give 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[2-(dimethylamino)ethyl]thioethanone hydrochloride. This showed ED50 = 8.5 mg/kg for inhibition of reserpine-induced ptosis in rats.

ACCESSION NUMBER: 1995:380315 CAPLUS  
DOCUMENT NUMBER: 122:160268  
TITLE: Preparation of arylcycloalkyl sulfides, sulfoxides and sulfones for the treatment of depression, anxiety, Parkinson's disease, etc.

INVENTOR(S): Harris, Paul John; Heal, David John  
PATENT ASSIGNEE(S): Boots Co. PLC, UK

SOURCE: PCT Int. Appl., 63 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent  
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9426704	A1	19941124	WO 1994-EP1494	19940507
W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MM, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, UZ, VN				
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CA 2162706	AA	19941124	CA 1994-2162706	19940507
AU 9468433	A1	19941212	AU 1994-68433	19940507
AU 681669	B2	19970904		
BR 9406577	A	19960130	BR 1994-6577	19940507
EP 715620	A1	19960612	EP 1994-916944	19940507
EP 715620	B1	19981028		
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JP 08510222	T2	19961029	JP 1994-524946	19940507
AT 172719	E	19981115	AT 1994-916944	19940507
ES 2124411	T3	19990201	ES 1994-916944	19940507
PL 176400	B1	19990531	PL 1994-311628	19940507
RU 2135467	C1	19990827	RU 1995-122740	19940507
RO 115519	B1	20000330	RO 1995-1958	19940507
SK 281257	B6	20010118	SK 1995-1407	19940507
ZA 9403241	A	19941114	ZA 1994-3241	19940511
IN 178003	A	19970301	IN 1994-MA393	19940511
IL 109635	A1	19980310	IL 1994-109635	19940512
FI 9505429	A	19960103	FI 1995-5429	19951110
NO 9504542	A	19960110	NO 1995-4542	19951110
US 5652271	A	19970729	US 1995-545752	19951222

## L18 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)

PRIORITY APPLN. INFO.: GB 1993-9749 A 19930512  
WO 1994-EP1494 W 19940507

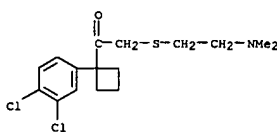
OTHER SOURCE(S): MARPAT 122:160268

IT 161189-93-1P 161189-94-2P 161189-95-3P  
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161190-00-7P 161190-02-9P 161190-03-0P  
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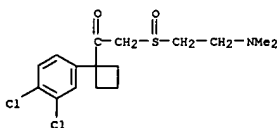
RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of arylcycloalkyl sulfides and sulfoxides and sulfones for treatment of depression and anxiety and Parkinson's disease)

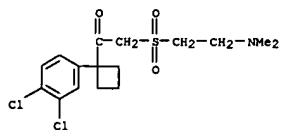
RN 161189-93-1 CAPLUS  
CN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[2-(dimethylamino)ethyl]thio]- (9CI) (CA INDEX NAME)



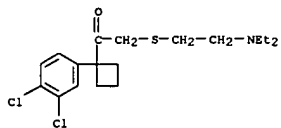
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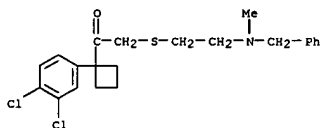
RN 161189-95-3 CAPLUS  
CN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[2-(dimethylamino)ethyl]sulfonyl]- (9CI) (CA INDEX NAME)



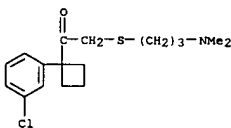
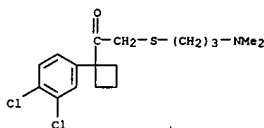
RN 161189-96-4 CAPLUS  
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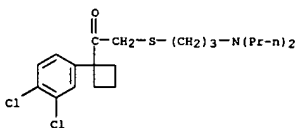
RN 161189-97-5 CAPLUS  
CN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[2-(methyl(phenylmethyl)amino)ethyl]thio]- (9CI) (CA INDEX NAME)



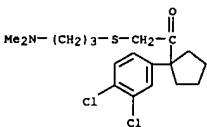
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RN 161190-06-3 CAPLUS  
CN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[3-(dimethylamino)propyl]thio]- (9CI) (CA INDEX NAME)

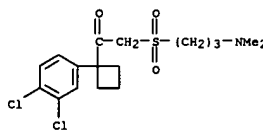


RN 161190-08-5 CAPLUS  
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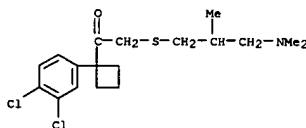


RN 161190-09-6 CAPLUS  
CN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[2-(dimethylamino)ethyl]thio]-, hydrochloride (9CI) (CA INDEX NAME)

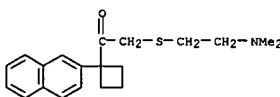
RN 161190-00-7 CAPLUS  
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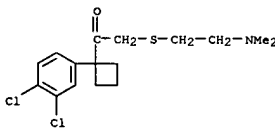
RN 161190-02-9 CAPLUS  
CN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[3-(dimethylamino)-2-methylpropyl]thio]- (9CI) (CA INDEX NAME)



RN 161190-03-0 CAPLUS  
CN Ethanone, 2-[[2-(dimethylamino)ethyl]thio]-1-[1-(2-naphthalenyl)cyclobutyl]- (9CI) (CA INDEX NAME)

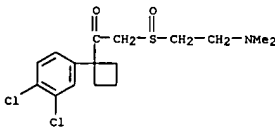


RN 161190-04-1 CAPLUS  
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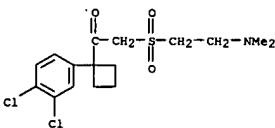
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RN 161190-10-9 CAPLUS  
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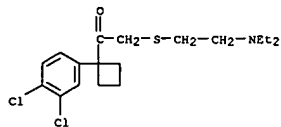
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RN 161190-11-0 CAPLUS  
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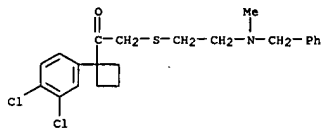
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RN 161190-12-1 CAPLUS  
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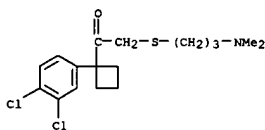
● HCl

RN 161190-13-2 CAPLUS  
 CN Ethanone, 1-[[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[3-(methyl(phenylmethyl)amino)ethyl]thio]-, hydrochloride (9CI) (CA INDEX NAME)



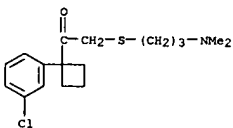
● HCl

RN 161190-15-4 CAPLUS  
 CN Ethanone, 1-[[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[3-(dimethylamino)propyl]thio]-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

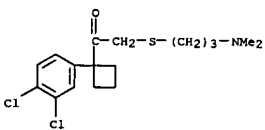
RN 161190-16-5 CAPLUS  
 CN Ethanone, 1-[[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[3-(dimethylamino)propyl]sulfonyl]-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

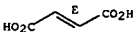
RN 161190-21-2 CAPLUS  
 CN Ethanone, 1-[[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[3-(dimethylamino)propyl]thio]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

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 CRN 161189-99-7  
 CMF C17 H23 Cl2 N O S



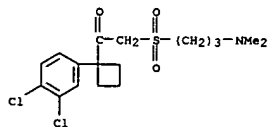
CM 2  
 CRN 110-17-8  
 CMF C4 H4 O4

Double bond geometry as shown.



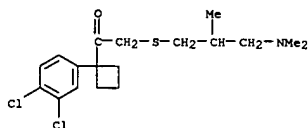
RN 161190-26-7 CAPLUS  
 CN Ethanone, 1-[[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[3-(dimethylamino)propyl]thio]-, 2-hydroxy-1,2,3-propanetricarboxylate (1:1) (9CI) (CA INDEX NAME)

CM 1  
 CRN 161189-99-7  
 CMF C17 H23 Cl2 N O S



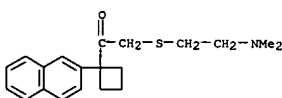
● HCl

RN 161190-17-6 CAPLUS  
 CN Ethanone, 1-[[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[3-(dimethylamino)-2-methylpropyl]thio]-, hydrochloride (9CI) (CA INDEX NAME)



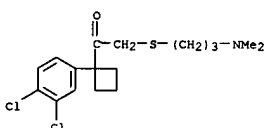
● HCl

RN 161190-18-7 CAPLUS  
 CN Ethanone, 2-[[2-(dimethylamino)ethyl]thio]-1-[[1-(2-naphthalenyl)cyclobutyl]-, hydrochloride (9CI) (CA INDEX NAME)

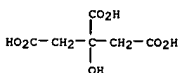


● HCl

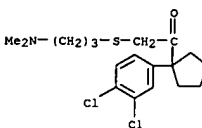
RN 161190-19-8 CAPLUS  
 CN Ethanone, 1-[[1-(3-chlorophenyl)cyclobutyl]-2-[[3-(dimethylamino)propyl]thio]-, hydrochloride (9CI) (CA INDEX NAME)



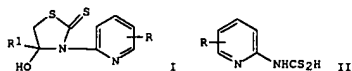
CM 2  
 CRN 77-92-9  
 CMF C6 H8 O7



RN 161190-27-8 CAPLUS  
 CN Ethanone, 1-[[1-(3,4-dichlorophenyl)cyclopentyl]-2-[[3-(dimethylamino)propyl]thio]-, hydrochloride (9CI) (CA INDEX NAME)



● HCl



AB Thiazolidinethiones I [R = H, 4-, 5-, 6-halo; R1 = C2-4 alkyl, alkylamino, dialkylamino, carbamoyl, alkylcarbamoyl, dialkylcarbamoyl, dialkoxymethyl, bis(alkylthio)methyl, alkylsulfonylethyl, phenylthiomethyl, 1-phenylcyclopropyl, 1-methylcyclohexyl, 1-naphthyl, heterocyclyl], useful as anthelmintics, were prepd. by the reaction of R1COCH2X (X = halo) and pyridyldithiocarbamate II. Thus, to a suspension of 5.42 g II.Et3N (R = H) in MeCN at 28.degree. was added 4.9 g PhSCH2COCH2Br in MeCN at 20-28.degree.. After reaction for 2 h at 20-28.degree., 5.50 g I (R = H, R1 = PhSCH2) was obtained.

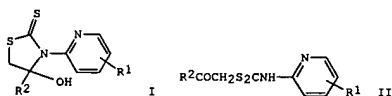
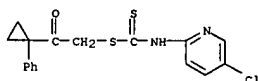
ACCESSION NUMBER: 1981:65670 CAPLUS  
DOCUMENT NUMBER: 94:65670  
TITLE: 4-Hydroxythiazolidine-2-thione derivatives  
PATENT ASSIGNEE(S): Rhone-Poulenc Industries S. A., Fr.  
SOURCE: Belg., 26 pp. Addn. to Belg. 867,128.  
CODEN: BEXXAL  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 879785	A4	19800430	BE 1979-197936	19791031
FR 2440368	A2	19800530	FR 1978-31039	19781102
FR 2464954	A2	19810320	FR 1979-22793	19790912
DK 7904364	A	19810313	DK 1979-4364	19791016
ZA 7905832	A	19801029	ZA 1979-5832	19791031

PRIORITY APPLN. INFO.: BE 1978-867128 19780516  
FR 1978-31039 19781102  
FR 1979-22793 19790912

IT 75272-08-1P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 75272-08-1 CAPLUS  
CN Carbamodithioic acid, (5-chloro-2-pyridinyl)-, 2-oxo-2-(1-phenylcyclopropyl)ethyl ester (9CI) (CA INDEX NAME)



AB The title compds., I and/or II were prepd. and tested for anthelmintic activity. The compds. exist predominantly in the tautomeric form I when R1 = H, 4-, 5-, or 6-halo and R2 = (substituted) C2-4 alkyl, dialkoxymethyl, alkylsulfonylethyl, PhSCH2, (substituted) Ph, dithiolanyl, thienyl, 2- or 4-pyridyl; when R1 = H, halogen, and R2 = phenylcyclopropyl, methylcyclohexyl, (HO)2C6H3, 1-C10H7, 3-pyridyl, dihydrodithienyl, etc., the tautomeric form II predominates. Thus, triethylammonium 2-pyridyldithiocarbamate reacted with BrCH2COCH2SPh in MeCN to give I (R1 = H, R2 = PhSCH2).

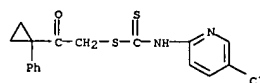
ACCESSION NUMBER: 1980:586335 CAPLUS  
DOCUMENT NUMBER: 93:186335  
TITLE: 4-Hydroxythiazolidine-2-thione derivatives  
INVENTOR(S): Bourzat, Jean Dominique; Farge, Daniel; Leger, Andre; Ponsinet, Gerard  
PATENT ASSIGNEE(S): Rhone-Poulenc Industries S. A., Fr.  
SOURCE: Ger. Offen., 36 pp. Addn. to Ger. Offen. 2,821,555.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2944342	A1	19800508	DE 1979-2944342	19791102
FR 2440368	A2	19800530	FR 1978-31039	19781102
FR 2464954	A2	19810320	FR 1979-22793	19790912
DK 7904364	A	19810313	DK 1979-4364	19791016
NL 7907862	A	19800507	NL 1979-7862	19791025
AU 7952377	A1	19800508	AU 1979-52377	19791031
GB 2034712	A	19800611	GB 1979-37711	19791031
JP 55108870	A2	19800821	JP 1979-142702	19791031
ZA 7905832	A	19801029	ZA 1979-5832	19791031
SE 7909082	A	19800503	SE 1979-9082	19791101
ES 485652	A2	19800616	ES 1979-485652	19791102
AT 7907066	A	19810415	AT 1979-7066	19791102

PRIORITY APPLN. INFO.: FR 1978-31039 19781102  
FR 1979-22793 19790912

IT 75272-08-1P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 75272-08-1 CAPLUS  
CN Carbamodithioic acid, (5-chloro-2-pyridinyl)-, 2-oxo-2-(1-phenylcyclopropyl)ethyl ester (9CI) (CA INDEX NAME)



=> fil reg

COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE	TOTAL
ENTRY	SESSION
20.23	205.54
SINCE FILE	TOTAL
ENTRY	SESSION
-2.60	-4.55

FILE 'REGISTRY' ENTERED AT 13:31:38 ON 17 APR 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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provided by InfoChem.

STRUCTURE FILE UPDATES: 16 APR 2003 HIGHEST RN 503266-82-8

DICTIONARY FILE UPDATES: 16 APR 2003 HIGHEST RN 503266-82-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 5 TO 234  
PROJECTED ANSWERS: 0 TO 0

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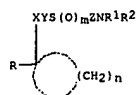
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SEARCH TIME: 00.00.01

L21 8 SEA SSS FUL L19

=> fil caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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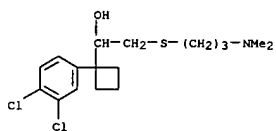
FILE 'CAPLUS' ENTERED AT 13:32:54 ON 17 APR 2003  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.



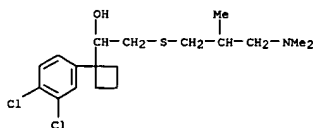
AB Comps. I [m = 0-2; n = 2-5; X = carbonyl, C(R5)(OH) (R5 = H, alkyl); Y = (alkyl-substituted) alkylene; Z = (alkyl-substituted) C2-5 alkylene; R = (halo-substituted) Ph, naphthyl; R1, R2 = H, alkyl, arylalkyl, provided that when R1 is benzyl, R2 is H or methyl], and pharmaceutically acceptable salts thereof, have utility in the treatment of drug misuse or other addictive disorders.

ACCESSION NUMBER: 2001:31323 CAPLUS  
DOCUMENT NUMBER: 134:95524  
TITLE: Cyclic ethanone and ethanol derivatives for the treatment of drug misuse or other addictive disorders  
INVENTOR(S): Luscombe, Graham Paul; Needham, Patricia Lesley  
PATENT ASSIGNEE(S): Knoll Aktiengesellschaft, Germany  
SOURCE: PCT Int. Appl., 24 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

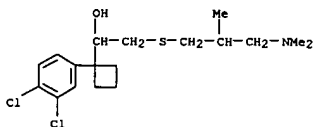
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001001979	A1	20010111	WO 2000-EP5736	20000621
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1198229	A1	20020424	EP 2000-943853	20000621
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003503452	T2	20030128	JP 2001-507472	20000621
PRIORITY APPLN. INFO.: GB 1999-15617 A 19990705 WO 2000-EP5736 W 20000621				
OTHER SOURCE(S): MARPAT 134:95524				
IT 161189-98-6 161189-98-6D, enantiomers 161190-01-8 161190-01-8D, enantiomers 161190-07-4 161190-07-4D, enantiomers				
RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES				



RN 161190-07-4 CAPLUS  
CN Cyclobutanemethanol, 1-(3,4-dichlorophenyl)-.alpha.-[[[3-(dimethylamino)-2-methylpropyl]thio]methyl]- (9CI) (CA INDEX NAME)



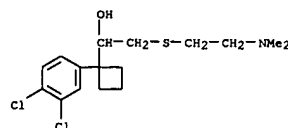
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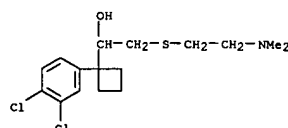
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.

FORMAT

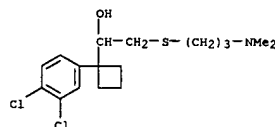
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(cyclic ethanone and ethanol deriva. for treatment of drug misuse or other addictive disorder)  
RN 161189-98-6 CAPLUS  
CN Cyclobutanemethanol, 1-(3,4-dichlorophenyl)-.alpha.-[[[2-(dimethylamino)ethyl]thio]methyl]- (9CI) (CA INDEX NAME)



RN 161189-98-6 CAPLUS  
CN Cyclobutanemethanol, 1-(3,4-dichlorophenyl)-.alpha.-[[[2-(dimethylamino)ethyl]thio]methyl]- (9CI) (CA INDEX NAME)



RN 161190-01-8 CAPLUS  
CN Cyclobutanemethanol, 1-(3,4-dichlorophenyl)-.alpha.-[[[3-(dimethylamino)propyl]thio]methyl]- (9CI) (CA INDEX NAME)



RN 161190-01-8 CAPLUS  
CN Cyclobutanemethanol, 1-(3,4-dichlorophenyl)-.alpha.-[[[3-(dimethylamino)propyl]thio]methyl]- (9CI) (CA INDEX NAME)

GI For diagram(s), see printed CA issue.  
AB Title compds. [I: m = 0-2; n = 2-5; X = CO, CH(OH)R5; R5 = H, alkyl; Y, Z = (alkyl-substituted) alkylene; R = (substituted) Ph, naphthyl; R1, R2 = H, alkyl, arylalkyl; when R1 = benzyl, then R2 = H, Me], were prepd. I are useful in treatment of depression, anxiety, Parkinson's disease, obesity, cognitive disorders, seizures, neurol. disorders such as epilepsy, and as neuroprotective agents to protect against conditions such as stroke.

Thus, 1-(3,4-dichlorophenyl)cyclobutanecarbonitrile reacted with MeMgI in Et2O to give 1-[1-(3,4-dichlorophenyl)cyclobutyl]ethanone. This was treated with Br2 in MeOH/CHCl3 to give 2-bromo-1-[1-(3,4-dichlorophenyl)cyclobutyl]ethanone, which was stirred with 2-(dimethylamino)ethanethiol hydrochloride in EtOH to give an oil which was treated with HCl in Et2O to give 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[2-(dimethylamino)ethylthio]ethanone hydrochloride. This showed ED50 = 8.5 mg/kg for inhibition of reserpine-induced ptosis in rats.

ACCESSION NUMBER: 1995:380315 CAPLUS  
DOCUMENT NUMBER: 122:160268  
TITLE: Preparation of arylcycloalkyl sulfides, sulfoxides and sulfones for the treatment of depression, anxiety, Parkinson's disease, etc.

INVENTOR(S): Harris, Paul John; Heal, David John  
PATENT ASSIGNEE(S): Boots Co. PLC, UK  
SOURCE: PCT Int. Appl., 63 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9426704	A1	19941124	WO 1994-EP1494	19940507
W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2162706	AA	19941124	CA 1994-2162706	19940507
AU 9468433	A1	19941212	AU 1994-68433	19940507
AU 681669	B2	19970904		
BR 9406577	A	19960130	BR 1994-6577	19940507
EP 715620	A1	19960612	EP 1994-916944	19940507
EP 715620	B1	19981028		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 08510222	T2	19961029	JP 1994-524946	19940507
AT 172719	E	19981115	AT 1994-916944	19940507
ES 2124411	T3	19990201	ES 1994-916944	19940507
PL 176400	B1	19990531	PL 1994-311628	19940507
RU 2135467	C1	19990827	RU 1995-122740	19940507
RO 115519	B1	20000330	RO 1995-1958	19940507
SK 281257	B6	20010118	SK 1995-1407	19940507
ZA 9403241	A	19941114	ZA 1994-3241	19940511
IN 178003	A	19970301	IN 1994-MA393	19940511
IL 109635	A1	19980310	IL 1994-109635	19940512
FI 9505429	A	19960103	FI 1995-5429	19951110
NO 9504542	A	19960110	NO 1995-4542	19951110
US 5652271	A	19970729	US 1995-545752	19951222

L22 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS (Continued)  
 PRIORITY APPLN. INFO.: GB 1993-9749 A 19930512  
 WO 1994-EP1494 W 19940507

OTHER SOURCE(S): HARPAT 122:160268

IT 161190-08-6P 161190-01-8P 161190-07-4P

161190-14-3P 161190-22-3P 161190-23-4P

161190-24-5P 161190-25-6P

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

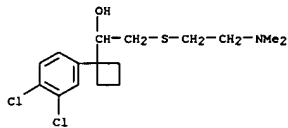
BIO (Biological study); PREP (Preparation); USES (Uses)

(prepn. of arylcycloalkyl sulfides and sulfoxides and sulfones for

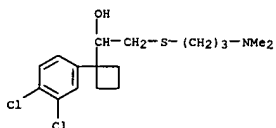
treatment of depression and anxiety and Parkinson's disease)

RN 161190-08-6 CAPLUS

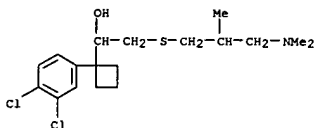
CN Cyclobutanemethanol, 1-(3,4-dichlorophenyl)-.alpha.-[[[2-(dimethylamino)ethyl]thio]methyl]- (9CI) (CA INDEX NAME)



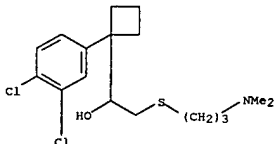
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 CN Cyclobutanemethanol, 1-(3,4-dichlorophenyl)-.alpha.-[[[3-(dimethylamino)propyl]thio]methyl]- (9CI) (CA INDEX NAME)



RN 161190-07-4 CAPLUS  
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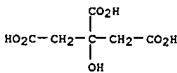


L22 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS (Continued)



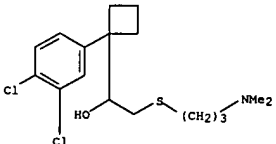
CM 2

CRN 77-92-9  
 CMF C6 H8 O7



RN 161190-24-5 CAPLUS  
 CN Cyclobutanemethanol, 1-(3,4-dichlorophenyl)-.alpha.-[[[3-(dimethylamino)propyl]thio]methyl]-, (+)- (9CI) (CA INDEX NAME)

Rotation (+).



RN 161190-25-6 CAPLUS  
 CN Cyclobutanemethanol, 1-(3,4-dichlorophenyl)-.alpha.-[[[3-(dimethylamino)propyl]thio]methyl]-, (+)-, 2-hydroxy-1,2,3-propanetricarboxylate (1:1) (salt) (9CI) (CA INDEX NAME)

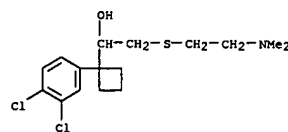
CM 1

CRN 161190-24-5  
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Rotation (+).

L22 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS (Continued)

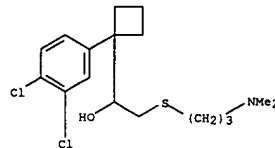
RN 161190-14-3 CAPLUS  
 CN Cyclobutanemethanol, 1-(3,4-dichlorophenyl)-.alpha.-[[[2-(dimethylamino)ethyl]thio]methyl]-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 161190-22-3 CAPLUS  
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Rotation (-).



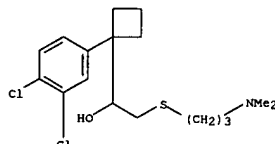
RN 161190-23-4 CAPLUS  
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CRN 161190-22-3  
 CMF C17 H25 Cl2 N O S

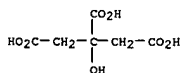
Rotation (-).

L22 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS (Continued)



CM 2

CRN 77-92-9  
 CMF C6 H8 O7



RN 161190-24-5 CAPLUS  
 CN Cyclobutanemethanol, 1-(3,4-dichlorophenyl)-.alpha.-[[[3-(dimethylamino)propyl]thio]methyl]-, (+)- (9CI) (CA INDEX NAME)

Rotation (+).



RN 161190-25-6 CAPLUS  
 CN Cyclobutanemethanol, 1-(3,4-dichlorophenyl)-.alpha.-[[[3-(dimethylamino)propyl]thio]methyl]-, (+)-, 2-hydroxy-1,2,3-propanetricarboxylate (1:1) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 161190-24-5  
 CMF C17 H25 Cl2 N O S

Rotation (+).

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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

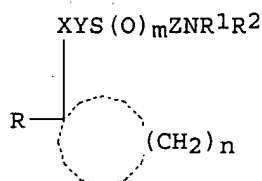
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ENTRY	SESSION
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10/019,802

all  
compds of  
anthers  
PCTL13 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS  
GI

AB Compds. I [m = 0-2; n = 2-5; X = carbonyl, C(R5)(OH) (R5 = H, alkyl); Y = (alkyl-substituted) alkylene; Z = (alkyl-substituted) C2-5 alkylene; R = (halo-substituted) Ph, naphthyl; R1, R2 = H, alkyl, arylalkyl, provided that when R1 is benzyl, R2 is H or methyl], and pharmaceutically acceptable salts thereof, have utility in the treatment of drug misuse or other addictive disorders.

ACCESSION NUMBER: 2001:31323 CAPLUS  
DOCUMENT NUMBER: 134:95524  
TITLE: Cyclic ethanone and ethanol derivatives for the treatment of drug misuse or other addictive disorders  
INVENTOR(S): Luscombe, Graham Paul; Needham, Patricia Lesley  
PATENT ASSIGNEE(S): Knoll Aktiengesellschaft, Germany  
SOURCE: PCT Int. Appl., 24 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001001979	A1	20010111	WO 2000-EP5736	20000621
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1198229	A1	20020424	EP 2000-943853	20000621
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003503452	T2	20030128	JP 2001-507472	20000621
PRIORITY APPLN. INFO.: GB 1999-15617 A 19990705				
WO 2000-EP5736 W 20000621				
OTHER SOURCE(S): MARPAT 134:95524				
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT				

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ENTER ANSWER NUMBER OR RANGE (1-):1-  
E1 THROUGH E22 ASSIGNED

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
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FILE 'REGISTRY' ENTERED AT 13:20:45 ON 17 APR 2003  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
 COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file  
 provided by InfoChem.

STRUCTURE FILE UPDATES: 16 APR 2003 HIGHEST RN 503266-82-8  
 DICTIONARY FILE UPDATES: 16 APR 2003 HIGHEST RN 503266-82-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
 PROPERTIES for more information. See STNote 27, Searching Properties  
 in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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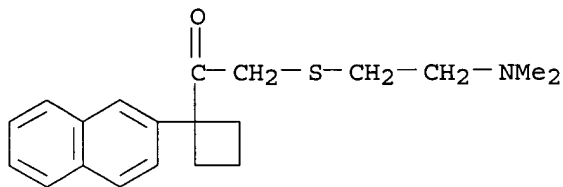
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 1 53-21-4/BI  
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 1 64-17-5/BI  
 (64-17-5/RN)  
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=> d scan

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN Ethanone, 2-[[2-(dimethylamino)ethyl]thio]-1-[1-(2-naphthalenyl)cyclobutyl]- (9CI)  
 MF C20 H25 N O S  
 CI COM

564/305  
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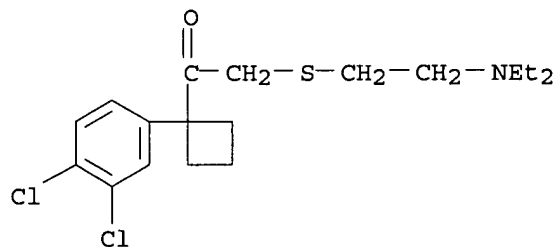
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 649  
 650



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):21

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[2-(diethylamino)ethyl]thio]- (9CI)  
 MF C18 H25 Cl2 N O S  
 CI COM

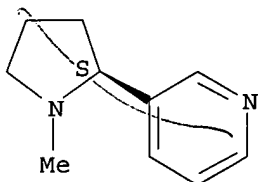


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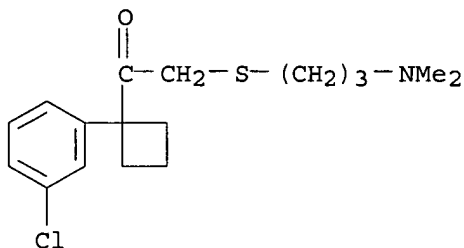
L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Pyridine, 3-[(2S)-1-methyl-2-pyrrolidinyl]- (9CI)  
MF C10 H14 N2  
CI COM

Absolute stereochemistry. Rotation (-).



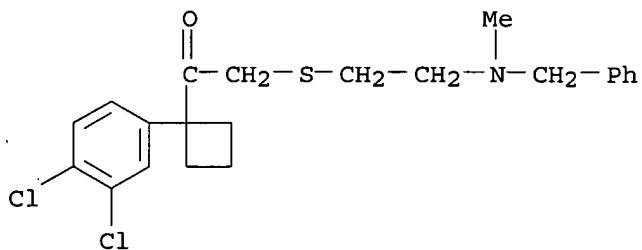
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L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Ethanone, 1-[1-(3-chlorophenyl)cyclobutyl]-2-[[3-(dimethylamino)propyl]thio]- (9CI)  
MF C17 H24 Cl N O S  
CI COM



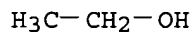
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L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Ethanone, 1-[1-(3,4-dichlorophenyl)cyclobutyl]-2-[[2-[methyl(phenylmethyl)amino]ethyl]thio]- (9CI)  
MF C22 H25 Cl2 N O S  
CI COM



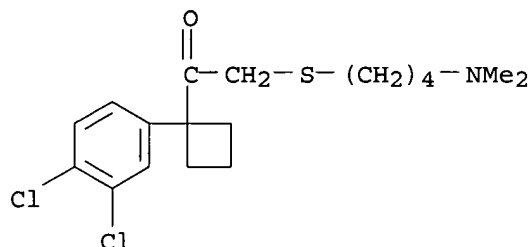
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L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN Ethanol (9CI)  
 MF C2 H6 O  
 CI COM



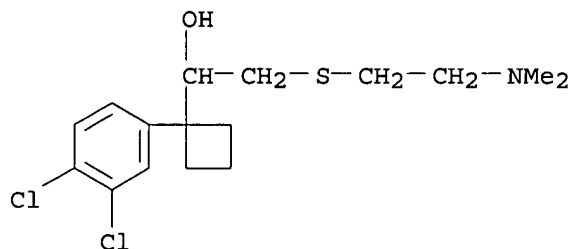
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L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
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 MF C18 H25 Cl2 N O S  
 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

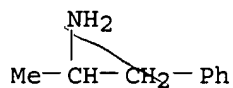
L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN Cyclobutanemethanol, 1-(3,4-dichlorophenyl)-.alpha.-[[[2-(dimethylamino)ethyl]thio]methyl]- (9CI)  
 MF C16 H23 Cl2 N O S  
 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

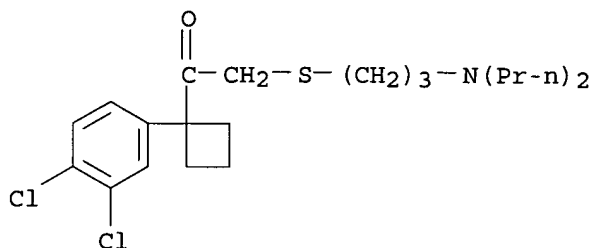
L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN Benzeneethanamine, .alpha.-methyl- (9CI)  
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT

MF C9 H13 N  
CI COM



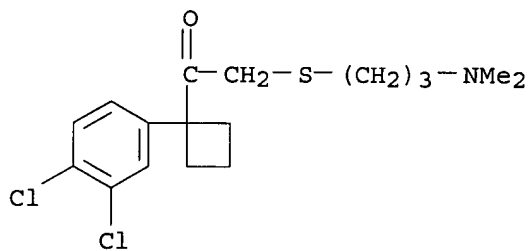
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
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MF C21 H31 Cl2 N O S



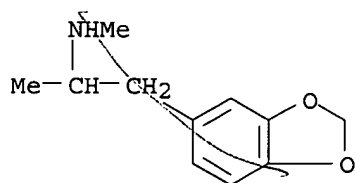
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L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
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MF C17 H23 Cl2 N O S  
CI COM



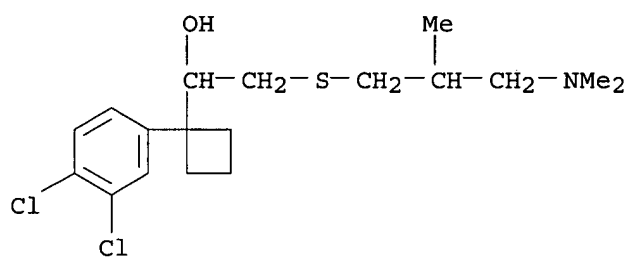
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN 1,3-Benzodioxole-5-ethanamine, N,.alpha.-dimethyl- (9CI)  
MF C11 H15 N O2  
CI COM



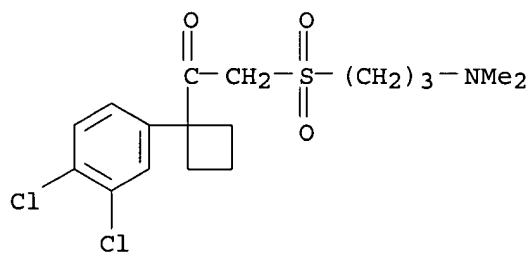
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
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 MF C18 H27 Cl2 N O S



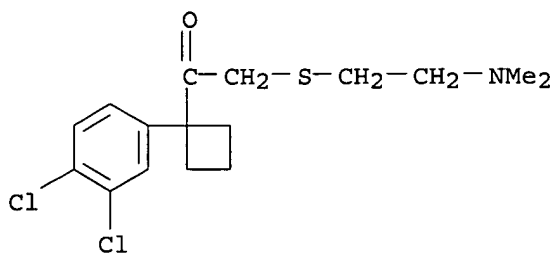
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L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
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 MF C17 H23 Cl2 N O3 S  
 CI COM



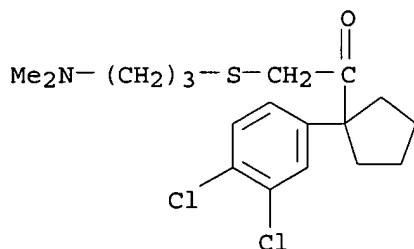
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
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 MF C16 H21 Cl2 N O S  
 CI COM



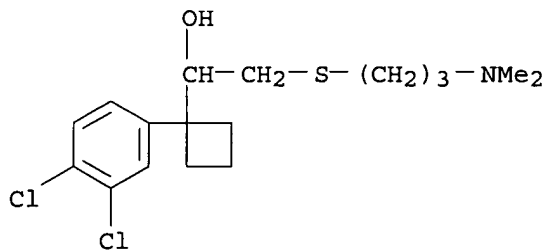
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
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 MF C18 H25 Cl2 N O S  
 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

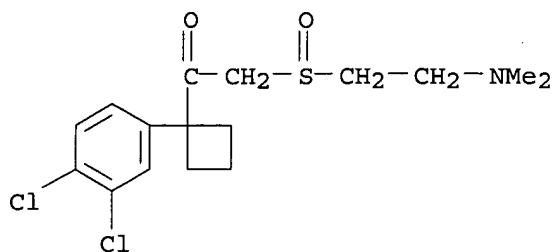
L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN Cyclobutanemethanol, 1-(3,4-dichlorophenyl)-.alpha.-[[[3-(dimethylamino)propyl]thio]methyl]- (9CI)  
 MF C17 H25 Cl2 N O S



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
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 MF C16 H21 Cl2 N O2 S

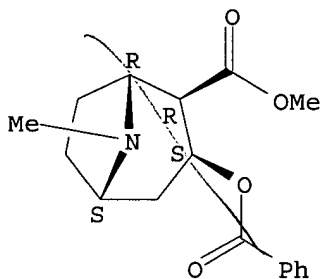
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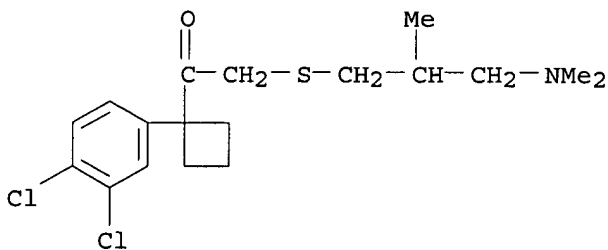
L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(benzoyloxy)-8-methyl-,  
methyl ester, (1R,2R,3S,5S)- (9CI)  
MF C17 H21 N O4  
CI COM

Absolute stereochemistry. Rotation (-).



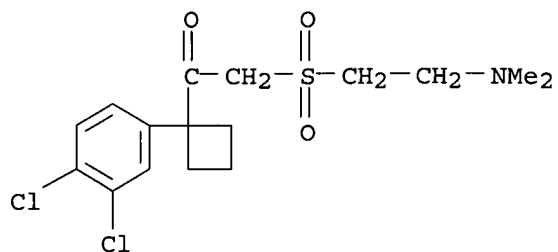
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L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
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MF C18 H25 Cl2 N O S  
CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

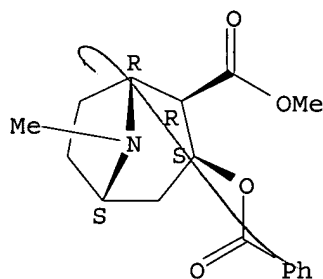
L14 22 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
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 MF C16 H21 Cl2 N O3 S  
 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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 IN 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(benzoyloxy)-8-methyl-, methyl ester, hydrochloride, (1R,2R,3S,5S)- (9CI)  
 MF C17 H21 N O4 . Cl H  
 CI COM

Absolute stereochemistry. Rotation (-).



● HCl

ALL ANSWERS HAVE BEEN SCANNED